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National  
Agricultural  
Library

U.S. Department  
of Agriculture  
Beltsville, MD  
20705



# AGRICULTURAL LIBRARIES INFORMATION NOTES

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## RURAL INFORMATION CENTER

### WHY A RURAL INFORMATION CENTER?

In the summer of 1987 the National Agricultural Library and the U.S. Department of Agriculture's Extension Service (ES) announced the formation of the Rural Information Center, the 12th specialized information center developed at the Library. It is designed to provide information and referral services to persons working to maintain the vitality of America's rural areas and to the officials who implement rural development and revitalization programs at all levels of responsibility--local, State and National. The Rural Information Center (RIC) provides a mechanism to accumulate and disseminate information regarding economic and social policies, resource use, revitalization, alternative income opportunities, community and public services, development of human capital, and other issues which impact rural America.



USDA photo

Representative Timothy Kelley of the Missouri General Assembly places the first call to the Rural Information Center from Savannah, MO, with Extension Regional Director Stan Ponce participating.



Deputy Secretary of Agriculture, Peter C. Myers, having accepted the first telephone call to RIC at the inaugural ceremony on September 3, 1987, waits for the second, while Dr. Ted Maher, National Program Leader for Local Government, operates the terminal accessing NAL's databases.

### WHO OPERATES RIC?

As a joint project of the Extension Service and the National Agricultural Library, RIC combines the technical, subject-matter expertise of Extension's nationwide educational network with the resources of the world's foremost agricultural library. RIC staff draw upon the NAL collection of books, journals, instructional program manuals, audio-visual materials, and computer software, and access online databases to provide information and document delivery. RIC staff also engage in collection development activities and cooperate with NAL technical services to ensure that acquired materials are entered into NAL's online bibliographic database, AGRICOLA, and made available



USDA photo

Myron D. Johnsrud, Administrator of the Extension Service, participates with Secretary Myers in the formal inauguration of RIC at the USDA Administration Building on September 3, 1987.

for use nationally through interlibrary loan. Extension provides RIC with program expertise as well as rural outreach contacts and outlets for distribution of information.

## RIC NETWORKING

This joint effort of ES and NAL and the linkage of the Extension network of State land-grant and county offices throughout the Nation, and NAL's network of State land-grant and USDA field libraries should result in an effective information system. It will assist thousands of USDA personnel, professional researchers, extension specialists and agents to identify current research, and to develop, implement, and evaluate educational publications and programs directed at improving life in rural communities.

RIC staff are also working with the Rural Library Services (RLS) Committee of the American Library Association (ALA) to develop a network of rural librarians with RIC as its nucleus. The RLS Committee of ALA has recommended



USDA photo

Chuck Kramer, Extension Service, operates the computer/overhead projector interface equipment which enables the audience at the inaugural ceremony to see the searches of the NAL databases.

that all State libraries appoint a State Rural Library Coordinator to work with their State Extension counterparts and the RIC staff. Extension is designating a RIC State Extension coordinator in every State to work with NAL's RIC staff.

## ACCESS TO RIC

The information and services available through RIC are easily accessible to local government or rural community officials, farmers, researchers, extension specialists, educators, and librarians through Extension's network of county and State offices. A telephone-computer network links the extension offices with RIC's headquarters at NAL in Beltsville, Maryland. Advanced technologies will be utilized by NAL, and to the greatest extent possible, promoted within the total agricultural information network. Regularly scheduled outreach activities such as meetings, exhibits, and demonstrations of new technology will be a part of the Center's activities.



USDA photo

Dr. Beth Honadle, National Program Leader for Economic Development, searches NAL databases to answer the first question telephoned into the Rural Information Center.



USDA photo

The RIC exhibit: the equation means: Rural Revitalization (RR) may be understood as the interaction of economic (E), institutional (I), and cultural (C) factors (f) that are driven by technology (t).



photo: J. Swab

(Clockwise from left) Robyn Frank, Head, Information Centers Branch, NAL; Patricia John, Coordinator, Rural Information Center; Don Reynolds, a member of the Rural Library Services Committee, ALA; Joseph Howard, Director, NAL; La Verne Ausman, Deputy Under Secretary for Small Community and Rural Development, USDA; and Roland Vautour, Under Secretary for Small Community and Rural Development, met on January 22, to discuss the pilot program, national implementation, and critical issues.

## WHEN WILL RIC BE OPERATIONAL?

### DEMONSTRATION CALL

The Rural Information Center was inaugurated in September 1987 on a very limited basis. Peter C. Myers, Deputy Secretary of Agriculture, accepted demonstration telephone calls from Missouri and Georgia at a ceremony at USDA headquarters on September 3 to launch this exciting new program. The demonstration call triggered computer generated responses from NAL/RIC online databases to questions about how rural communities cope with decreased income. These responses included case examples and contact information on how similar rural communities have handled comparable problems.

### PILOT PROGRAM

RIC staff developed a pilot program in the fall quarter of 1987, and implemented it in six states in January 1988. Illinois and New Mexico were first to begin operating, followed by Iowa, Vermont, Georgia, and Missouri. Coordinators in these states are, Illinois: Jeri Marxman, Area Local Government Extension Specialist; New Mexico: Bob Czerniak, Assistant Professor at New Mexico State University; Iowa: Dan Otto, an Economic Development Specialist, Iowa State University; Missouri: Tom Henderson, State CRD Extension Service Leader, University of Missouri; Vermont: Barry Stryker, Professor, and Betty Scannell, Assistant Professor, University of Ver-

mont; Georgia: Rusty Brooks, Extension Sociologist, University of Georgia. The pilot program will continue into April. Most of the coordinators have spent a week at NAL for orientation and training.

### NATIONAL OPERATION

At the conclusion of the pilot in April, RIC plans to move towards national implementation with the remaining States as each State designates its RIC Coordinator. Other USDA agencies and Federal departments, as well as public interest groups, are being invited to work with RIC.

## RIC INFORMATION & SERVICES

### SUBJECT COVERAGE

RIC supplies rural revitalization information on: how rural communities can maintain a competitive, diversified rural economy, including management and marketing education, profitability of rural business and agriculture, and

natural-resource based enterprises; economic development, including diversification and development of new sources of employment and income; rural local government services, facilities, and the ability to support them; local leadership efforts to deal with structural change and leadership development; rural communities, including coping with transition, family support networks, and impact of political, economic, and social change; and natural resources, including how they affect the quality of urban and rural life, and the assessment and development of public policy.



photo: J. Swab

The meeting shown in the upper photo concluded with demonstrations of databases and systems utilized by RIC in carrying out its national mandate. Seated from left, Mr. Reynolds, Mr. Howard, Mr. Vautour, Mr. Ausman, and Ms. Louise Reynells, NAL/RIC staff, performing the demonstration. Standing, Ms. John, Mr. Robert Bray, NAL/RIC, Ms. Frank, and Mr. Robert Lovan, National Program Leader, Natural Resources and Rural Development, ES.

## INFORMATION AND REFERRAL SERVICE

RIC will quickly deliver a computer-generated, hard copy of information from its several databases to the requester at the point of inquiry. If the user then desires a cited publication, it can be obtained through inter-library loan (including photo-copy). In addition to AGRICOLA, AGRIS, and other databases available through DIALOG, the Rural Information Center has online access to LOGIN (Local Government Information Network), NAB (National Alliance of Business), NARS (Narrative Accomplishment Reporting System), and FAPRS (Federal Assistance Programs Retrieval System).

## PUBLICATIONS SERVICE

RIC is developing a series of *Rural Information Briefs*, which will include special information summaries focused on subtopics that provide subject-matter references similar to the NAL *Quick Bibliography* series and the *Pathfinder* bibliographic series. Other more extensive bibliographies are being prepared and published. The RIC staff will be developing: a descriptive brochure on the Center; directories of resources or expert persons, institutions, professional associations, and current research; guides to the literature; reports on applications of information technologies; and educational publications and programs based on identified rural needs. These serve to provide a link between specific user groups, or individual needs and the vast resources to which NAL has access, including those located outside NAL. Sample RIC publications include the bibliography, "Toxic Waste Incineration," prepared by M. Louise Reynells, *Rural Information Center Publication Series (RICPS)*, No. 1, December 1987; "Rate

Elasticity of Local Government Tax Revenues," *RICPS*, No. 3, October 1987, a review of the literature and bibliography prepared by Thomas G. Johnson, Virginia Polytechnic Institute and State University, Cooperative Extension Service, and Kathleen C. Hayes, NAL/RIC; and the bibliography, "Financial Management and Local Governments," *RICPS*, No. 2, September 1987, prepared by Philip Favero, University of Maryland, Cooperative Extension Service, and Kathleen C. Hayes, NAL/RIC. Users may request a list of bibliographies, subject searches, and other publications available from RIC.

## FUTURE TRENDS SYSTEM

A monitoring and analysis system will collect telephone request data to be analyzed along with other available future/strategic planning information to determine future



photo: J. Swab

On November 19, RIC provided orientation and demonstrations to a special, yet representative group visiting the Center, the State presidents of the National Association of County Agricultural Agents. (Above) The NACAA in the NAL lobby, where Kate Hayes (below), and others spoke to the group. In the first row below are Mr. James Roberts of Virginia, Mr. Lovan, ES, Ms. Frank, NAL, and Mr. Billy Witherspoon of South Carolina.



photo: J. Swab

rural issues and information needs. A national expert panel will develop this "Future Trends" material.

## OTHER SERVICES

The Rural Information Center will also provide traditional library services in its subject areas, including collection development and public services such as reference and document delivery. RIC will expand these services through local, State, and regional networks for responding to the inquiries of consumers, educators, and researchers. RIC will enhance these services through the development of new technology applications and the outreach program discussed previously. RIC is working with other institutions or agencies to assist with development of information products and the creation of education or training materials for future workers in the rural information field.



photo: J. Swab

Robyn Frank, NAL, and NACAA national officers, Billy Witherspoon, SC, and James Roberts, VA, discuss future relationships between NAL/RIC and the NACAA and the local organizations it represents.

## QUESTIONS & CLIENTELE TO DATE

During the first six months of operation, RIC Staff handled requests on a great variety of subjects. Sixty percent of the questions concerned economic development, with many of them relating to funding sources; 25% concerned local government services; 12% natural resources and quality of life; and 3% leadership and community change. (See the 2-page chart "Revitalizing Rural America," on pages 6-7, which addresses "critical issues" and "responses.") RIC staff accessed nearly 50 databases, providing clients with on-line citations, full texts, and case study information, and individual and organizational referrals. A list of subjects searched is available from RIC.

Forty percent of RIC queries came from State and County Extension Services, while State officials, USDA officials, and university staff accounted for 11% each, and community and rural development organizations for 7%. The remaining 20% included requests from Federal officials, Congress, and libraries. RIC received requests from 40 states and the District of Columbia. Georgia accounted for 14%, while New York, Idaho, Illinois, Iowa, Kentucky, Maryland, Minnesota, Missouri, and Vermont each accounted for about 3%.

## ACCOMPLISHMENTS TO DATE

In addition to planning for the center, conducting the pilot program, answering questions, and preparing publications, RIC staff have:

- provided training to a number of state coordinators, and orientation and demonstrations to a large number of visitors.
- prepared a variety of materials relating to objectives, policies, procedures, and

"tips" to serve as guidelines for extension and rural library coordinators and cooperating institutions as well as ES and RIC staff.

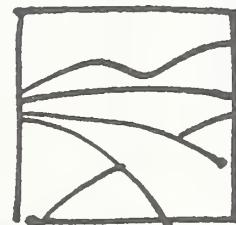
- met with rural librarians at ALA to develop a network of State rural library coordinators.
- planned a number of training programs or professional meetings with cooperating institutions including one with Clarion University of Pennsylvania which is announced following this article.
- generated a list of keywords relating to rural development and a proposed indexing vocabulary.
- engaged in a variety of collection development activities, solicited materials for the collections, and developed "core" lists for future collection development.
- participated in or exhibited at a number of professional meetings or educational forums, workshops, or symposia.

## ADDITIONAL INFORMATION

For additional information about RIC, contact Patricia John, Coordinator, Rural Information Center, Room 304, National Agricultural Library, 10301 Baltimore Boulevard, Beltsville, Maryland 20705; telephone (301) 344-2547.

Or contact Robert Lovan, National Program Leader, Natural Resources and Rural Development, Extension Service, Room 3869, USDA South Building, Washington, D.C. 20250-0900; telephone (202) 447-2805.

--This article was written and excerpted by Joseph N. Swab from materials provided by Kathleen Hayes, Patricia John, and others associated with RIC.



**Rural  
Information  
Center**



photo: J. Swab

The group primarily responsible for implementing the Rural Information Center. (L-R) Kate Hayes, Robyn Frank, Bob Lovan, Louise Reynnells, and Pat John.

# Revitalizing Rural America



## Critical Issues & Cooperative Extension System Response

<p><b>The economic competitiveness of rural areas is diminishing.</b></p>	<p>Rural communities are dependent on too few sources of income.</p>	<p>Service demands on local governments and community organizations are growing while attendant resources are diminishing.</p>	<p>Rural families and communities are having difficulty adjusting to the impact of political, economic, and social change on rural life.</p>	<p>The quality of the natural resource base is critical to revitalizing rural communities.</p>	<p>Goal: Develop educational programs to foster an understanding of the impact of natural resources on the quality of both urban and rural life; facilitate the collaboration of affected parties to assess and develop public policy.</p>
				<p>Goal: Strengthen the public decision-making process through education programs that help local officials: improve the cost-effectiveness of local governments and find new ways to develop and deliver community facilities and services.</p>	<p>Goal: Through education programs aimed at all age groups, expand the pool of quality leadership and improve the educational support for community leaders to help them cope with local needs.</p>
				<p>Goal: Find alternative uses for rural resources through economic development education that: helps to diversify the rural economic base; increases value-added locally; and develops new sources of employment and income.</p>	<p>Goal: Develop educational programs to assist rural communities, families, and individuals in coping with transition; strengthen family support networks; and help local decision makers devise new institutional arrangements to meet family and community needs.</p>
				<p>Goal: Through management and marketing education, maintain and enhance the profitability of rural businesses, including agriculture and natural resource-based enterprises.</p>	<p>Cooperative Extension System</p>

The charts on these two pages show some of the critical issues with which the Rural Information Center and the Extension Service are dealing, and some Extension responses. RIC has organized its activities around these issues and in support of

# Critical Issues, Clients and Educational Responses\*

CLIENTS ISSUES	Families	Producers, Agri-businesses and Organizations	Youth	Businesses and Communities	Natural Resource Managers and Interest Groups
The economic competitiveness of rural areas is diminishing.	<ul style="list-style-type: none"> <li>Employee wellness programs</li> </ul>	<ul style="list-style-type: none"> <li>Systems management for agricultural firms</li> <li>Farm and ranch management and marketing</li> </ul>	<ul style="list-style-type: none"> <li>Youth entrepreneurship</li> </ul>	<ul style="list-style-type: none"> <li>Business management and marketing</li> <li>Retention and expansion programs</li> <li>Education on sources of capital and structuring finances</li> </ul>	<ul style="list-style-type: none"> <li>Improve efficiency of natural resource based industries</li> <li>Increasing rural income through natural resource development</li> <li>Sea Grant Program</li> </ul>
Rural communities are dependent on too few sources of income.	<ul style="list-style-type: none"> <li>Home-based business development</li> </ul>	<ul style="list-style-type: none"> <li>Alternatives for agricultural resources and enterprises</li> </ul>		<ul style="list-style-type: none"> <li>Community economic analysis</li> <li>Downtown revitalization</li> <li>Institution building—industrial development corporations, etc.</li> <li>Business development</li> <li>Economic development finance</li> <li>Grant and aid sources</li> </ul>	<ul style="list-style-type: none"> <li>Recreation and wildlife development</li> <li>Alternatives for fishers, private forest landowners</li> <li>New forest products development and marketing</li> <li>Sea Grant Program</li> </ul>
Service demands on local governments and community organizations are growing while attendant resources are diminishing.			<ul style="list-style-type: none"> <li>Youth citizenship</li> <li>Organizational skill and knowledge development for volunteers</li> </ul>	<ul style="list-style-type: none"> <li>Public policy education for local officials</li> <li>Local government operational management assistance</li> <li>Community planning</li> <li>Growth impacts analysis</li> </ul>	<ul style="list-style-type: none"> <li>Organizational skill and knowledge development for volunteers</li> <li>Water and waste management</li> </ul>
Rural families and communities are experiencing difficulty adjusting to the impact of economic, social, and political change on rural life.			<ul style="list-style-type: none"> <li>Stress management</li> <li>Self-esteem</li> </ul>	<ul style="list-style-type: none"> <li>New institutional arrangements to support transition needs</li> </ul>	
Rural revitalization is dependent on skilled community leadership.		<ul style="list-style-type: none"> <li>Community services to support families</li> <li>Dependent care</li> <li>Family support network and training</li> <li>Family resource management</li> <li>Stress management</li> </ul>	<ul style="list-style-type: none"> <li>Financial management</li> </ul>	<ul style="list-style-type: none"> <li>Personal leadership skills and knowledge</li> <li>Youth and community pride</li> </ul>	<ul style="list-style-type: none"> <li>Comprehensive Rural Leadership Program</li> <li>Personal leadership skills and knowledge development</li> <li>Community pride</li> </ul>
The quality of the natural resource base is critical to revitalizing rural communities.		<ul style="list-style-type: none"> <li>Personal leadership skills and knowledge</li> <li>Family Community Leadership (FCL)</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural Rural Leadership Program</li> <li>Personal leadership skills and knowledge</li> </ul>	<ul style="list-style-type: none"> <li>Public policy education</li> <li>Natural resource management for conservation and profit</li> </ul>	<ul style="list-style-type: none"> <li>Public policy education</li> <li>Land use planning</li> <li>Coalition development</li> <li>Organizing for political action</li> </ul>

\*Educational responses are meant to be illustrative of the interdisciplinary dimensions of issues.  
Please don't consider this an exhaustive list.

Developed by:  
Revitalizing Rural America  
Priority Initiatives Task Force



these responses. RIC statistical analysis of its questions answered, publications developed, and services provided, has also utilized the same categories of issues and clientele.

# Information and Rural Economic Development

A conference jointly sponsored by the

Center for the Study of Rural Librarianship  
and the  
National Agricultural Library



May 4, 5, 6, 1988  
Clarion Holiday Inn

In cooperation with the College of Continuing Education and the College of Library Science, Clarion University

## Wednesday, May 4, 1988

- 6:00-8:00 Conference registration, dinner on your own  
8:00-10:00 Social get-together for conference attendees

## Thursday, May 5, 1988

- 8:00-8:30 Conference registration  
8:30-9:00 Greetings  
9:00-10:00 "The Outlook for Rural Economic Development," keynote presentation by Honorable David R. Wright (D-63), Majority Policy Chairman, House of Representatives, Commonwealth of Pennsylvania  
10:00-11:00 "The Changing Dimensions of Rural America," Daryl Heasley, Associate Professor, Rural Sociology, The Pennsylvania State University  
11:00-12:00 "Rural Information Needs," as seen by:  
Dave Fowler, County Extension Director, Cooperative Extension Service, Clarion  
Pat John, Coordinator, Rural Information Center, National Agricultural Library  
Ruth Mears, Extension Agent, Family Living Program,  
Cooperative Extension Service, Clarion  
Paul Weaver, Member, Board of Directors,  
Pennsylvania Economic Development Financing Authority  
12:00-1:30 Buffet Luncheon  
1:30-2:00 "The Role of the National Agricultural Library," Joseph Howard, Director, National Agricultural Library  
2:00-2:30 "NAL's Rural Information Center," Robyn Frank, Head, Information Centers Branch,  
and Pat John, Coordinator, Rural Information Center,  
National Agricultural Library  
2:30-3:00 Questions  
3:00-3:30 Break  
3:30-4:30 "Technology and Rural America: the Role of OCLC," Clarence R. Walters, Program Director, State and Public Libraries, Online Computer Library Center, Dublin, Ohio  
4:30-5:00 Questions from the audience, wrap-up, dinner on your own  
8:00-10:00 Reception for conference attendees

## Enrollment Form Information and Rural Economic Development

Name \_\_\_\_\_

Soc.Sec. \_\_\_\_\_

Title \_\_\_\_\_

Employer \_\_\_\_\_

Home address \_\_\_\_\_

Home phone ( ) \_\_\_\_\_

City, state, zip \_\_\_\_\_

Business phone ( ) \_\_\_\_\_

Please enclose your check or money order in the amount of \$50 payable to CUP Foundation. Send to College of Continuing Education, Clarion University of Pennsylvania, Clarion, PA 16214. Included in the registration fee is the cost of Thursday's luncheon, coffee breaks, etc. To receive special conference rates at the Holiday Inn (814-226-8850), make your reservation by April 29, 1988. Indicate that you are attending the Library Conference.

### Friday, May 6, 1988

- |             |  |
|-------------|--|
| 8:00-9:00   | Registration   |
| 9:00-10:00  | " <b>The Rural Library: Some Recent Research,</b> " Mike Jaugstetter, Consultant Librarian, Clarion District Library Association, and Bernard Vavrek, Coordinator, Center for the Study of Rural Librarianship, Clarion University |
| 10:00-11:00 | " <b>Cooperation Between Libraries and Extension,</b> " Tim Lynch, Library Systems Division Coordinator, Nebraska Library Commission, Lincoln, Nebraska.   |
| 11:00-12:00 | " <b>The Intermountain Community Learning Information Services Project: A Participant's View,</b> " Bill Vasey, ICLIS Learning and Information Specialist, Carbon County Public Library, Rawlins, Wyoming                          |
| 12:00-12:30 | Questions from the audience, wrap-up   |

**Purpose of the conference:** The purpose of this conference is to explore what constitutes the information infrastructure of rural America. It is hoped that this knowledge will assist in the continuing revitalization of rural areas.

**Intended Audience:** This conference is structured to meet the interest of all persons who are interested in rural America.

Clip or xerox the above form to register for the INFORMATION & RURAL ECONOMIC DEVELOPMENT CONFERENCE, and mail to:

*College of Continuing Education  
Clarion University of Pennsylvania  
Clarion, PA 16214*

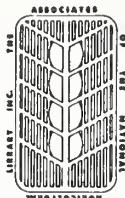


Clip or xerox the reverse form to order copies of the recently published JOURNAL OF NAL ASSOCIATES, Vol. 11, Nos. 1/4, January/December 1986. Use the form also to become a member of the Associates, or to renew membership for 1988. Mail to:

*Associates of the NAL, Inc.  
National Agricultural Library,  
Room 203  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705*

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*College of Continuing Education  
Clarion University of Pennsylvania  
Clarion, PA 16214*



# JOURNAL OF NAL ASSOCIATES

VOL. 11, NOS. 1/4

JANUARY/DECEMBER 1986

Clip or xerox the form below to order copies of the recently published JOURNAL OF NAL ASSOCIATES, Vol. 11, Nos. 1/4, January/December 1986. This 230-page volume contains six parts on the history of the Bureau of Animal Industry, and USDA programs related to livestock and poultry, wholesome meat, veterinary medicine, animal husbandry, animal parasitology, animal diseases and eradication.

Use the form also to become a member of the Associates, or to renew membership for 1988. Mail to:

*Associates of the NAL, Inc.  
National Agricultural Library,  
Room 203  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705*

**ORDER AND MEMBERSHIP FORM**

<u>ITEM</u>	<u>QUANTITY</u>	<u>PRICE</u>	<u>AMOUNT</u>
"100 Years of Animal Health"	X	\$17.00	=
[ \$17.00 includes \$2.00 postage and handling per volume ]			

## APPLICATION FOR MEMBERSHIP

#### TOTAL SALES & MEMBERSHIP

I wish to become a member of the Associates NAL, Inc.

Personal, \$15.00; Institutional, \$100.00; Business & Industrial, \$500.00

NAME \_\_\_\_\_

Make checks payable to:

ADDRESS \_\_\_\_\_

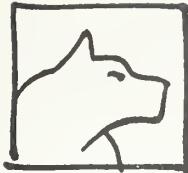
Associates of the National Agricultural Library, Inc.

CITY \_\_\_\_\_

10301 Baltimore Boulevard  
Beltsville, Maryland 20705

STATE \_\_\_\_\_ ZIP \_\_\_\_\_

10301 Baltimore Boulevard  
Beltsville, Maryland 20705



## Animal Welfare

### AWIC FUNDED FOR FY88

Once again funds were allocated in the FY88 budget for the Animal Welfare Information Center (AWIC) at the National Agricultural Library. Staff members have been selected and are expected to be on board in mid-April. Activities will concentrate on the acquisition of various types of materials to support the mandate of the amendments to the Laboratory Animal Welfare Act of 1985. The topics that will be stressed will be alternatives to animal use, training materials, simulation software, improved methods for pain control, husbandry and housing, breeding, ethical issues, regulations—especially of other countries, and other supportive disciplines.

There are plans to update the current training list, compile an annotated list of the audio-visuals that have been added to the collection, produce a videotape that explains the activities and services of AWIC, and produce several bibliographies on topics that are important to those who are involved in the laboratory animal welfare field.

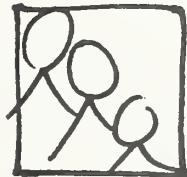
Some monies have been set aside to support information products with grants and cooperative agreements. Although NAL does not have a formal grants program at this time, the monies are intended to support the production of information products on topics that are relevant to laboratory animals, preferably, the topics that are stated in the Act. The format must be useable by a large portion of the people who oversee or are directly involved with laboratory animals. Projects could be electronic information in the form of databases, advisory systems, simulation software, or CD ROM, etc. If anyone would like to submit a proposal for a grant or cooperative agreement, please contact:

*Jean Larson, Coordinator*

*Animal Welfare Information Center  
National Agricultural Library, Room 304  
Beltsville, MD 20705.*

Telephone: (301) 344-3704.

--Jean Larson



## Family

Last Fall, NAL's Family Information Center enjoyed the luxury of having two volunteers from the University of Maryland. Beth Sayles was working on her home economics certification and wanted national level experience. She was involved in reference, mailings, and setting up resource displays, as well as in determining how to process many State-

produced extension home economics publications.

Deborah Judy, a candidate for her MLS, used this experience for a course on "special libraries". As her project, she chose to work on a pathfinder entitled *Understanding American Indian and Alaska Native Culture*. In addition to tracking and typing the pathfinder, Deborah wrote the annotations for the resources, previously identified by USDA's Food & Nutrition Service and Indian Health Service personnel at the Department of Health and Human Services. Thanks to Ms. Judy's contributions, the publication will soon be available. Its companion pathfinder, produced by NAL's Food & Nutrition Information Center, is entitled *Health Update of American Indians and Native Alaskans*.

Kate Hayes, Family Information Center coordinator, said, "Both of these graduate students provided valuable assistance. Their volunteer time coincided with the initiation of NAL's Rural Information Center, a project with which I was very busy at the time." [Ms. Hayes was a leader of the team which organized the new center.]

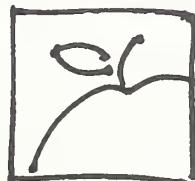
## BETH SAYLES

photo: D. Starr



## DEBORAH JUDY

photo: D. Starr



## Food & Nutrition

### NATIONAL CONSUMERS WEEK

National Consumers Week is April 24-30th. This is the seventh year of this national observance of the importance of consumers to the U.S. economy. Across the nation and around the world, consumers are sending business and government an important message: there is no substitute for good, old-fashioned service. So the theme this year is "Consumer's Buy Service." During April 26th through 28th NAL will participate in USDA exhibits which feature the ways in which we can use expert advisory systems to provide consumer information through computer technology.

For additional information contact;

*Holly Irving*

*Food and Nutrition Information Center  
National Agricultural Library, Room 304  
Beltsville, MD 20705*

Telephone: (301) 344-3719.

--Holly Irving

# SAVING SEARCH MONEY

by KARL SCHNEIDER  
Reference Branch, NAL

## Online Prints: Often THE BEST DEAL!

Searchers can reduce the costs of producing printed output from online searches by using the DECISION TABLE in this article, page 13. Knowing the difference in cost of online vs. offline charges for a given record format and the online connect charges in the database of interest, a searcher may use the table to see which mode of print will cost least.

The formula used to find the cost difference in online vs. offline prints is discussed below. These calculations have been expanded in the accompanying table. TO USE THE TABLE on page 13:

1) Find the difference in OFFLINE and ONLINE print charges.

2) Then read across to the columns for the desired format and baud rate options.

3) IF DATABASE CONNECT COSTS ARE LESS THAN THE FIGURE SHOWN, ONLINE PRINTS WILL SAVE MONEY.

The accompanying Decision Table has been developed using the formula below to define the cost differences between ONLINE vs. OFFLINE prints.

OFFLINE COSTS = #RECS \* \$OFF/REC

ONLINE COSTS =

#RECS \* \$ON/REC + \$CONNECT + TELE \* TIME  
HOUR

Since TIME is a function of record size (FORMAT) and speed of transfer (BAUD) it can be expressed as:

PRINT TIME =

#RECS \* BYTES/REC (FORMAT)  
BYTES/HOUR (BAUD RATE)

This can be simplified to:

PRINT TIME = n(HOURS/REC)

where n is the number of records printed

Assuming the average FORMAT 3 record to be 500 bytes, 1200 baud or 120 bytes/sec will allow the capture of  $60*60*120/500 = 800 + \text{recs/hr}$ , or 1600 + recs/hr at 2400 baud. Assuming that an average FORMAT 7 record as 1.2 Kbytes gives 350 recs/hr at 1200 baud and 700 recs/hr at 2400 baud. (These size assumptions have been tested and verified for BIOSIS, AGRICOLA, and CAB.)

- Note that 2400 baud access to DIALOG is now or will soon be available.
- Also note that BRS has CHEAPER rates for OFFLINE prints in most databases.
- Large files will need to be CAPTURED, or else the

- print buffer fills and the transfer rate drops.
- The esthetic values of page layout, titles, and print quality have not be considered in this analysis.

## AN EXAMPLE:

Suppose one wishes to search the AGRICOLA database as loaded by DIALOG. From experience, or use of the database catalog or the online "COSTnnn" command, one knows that the difference in record charges (OFFLINE minus ONLINE) is \$.10, (twenty cents offline minus ten cents online for each record printed or typed). So, reading across on the line for 0.10 in the leftmost column, one finds 25.00 in the next column (350 records per hour, saving 350 times \$.10 = \$35.00 print charges, minus \$10.00 telecommunications charges per hour = \$25.00 saved in print charges. Thus, if a database costs less than \$25.00 per connect hour, online prints are cheaper than offline, when records are \$.10 cheaper) This means that in AGRICOLA, costing \$39.00 per hour from DIALOG, ONLINE WOULD NOT BE CHEAPER IF PRINTING RECORDS WITH ABSTRACTS AT 1200 BAUD.

HOWEVER, reading further across this line to the last three columns, one sees that for bibliographic citation format at 1200 baud, or either format at 2400 baud, the savings minus telecommunications charges equal \$70.00, and \$60.00 or \$150.00 respectively. Thus, for any of the later three situations, prints online will save considerably in this database. The same technique is used to evaluate savings potential in any database, once the cost values are obtained.

For assistance, or to make comments or suggestions, contact:

Karl R. Schneider  
Reference Branch, Room 111  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705

Or telephone: (301) 344-2113.



## BOOK REVIEW

*A Guide to Indexing Software.* By Linda K. Fetter. 10 p. Washington, DC: American Society of Indexers, 1987. \$10.00. (1700 18th Street, NW; Washington, DC 20009).

A state-of-the-art reference for libraries and their patrons. Until 1982 there were no indexing programs for microcomputers. These programs are for both the occasional or the professional indexer. The programs format indexes, suppress repeat headings, merge page references, and allow for thousands of entries. When one decides finally to index the local newspaper, archives, or genealogy collection, do it right. This *Guide* shows how to proceed and what to expect. It briefly discusses choosing a program, four low-cost programs (\$50-\$175); three medium-cost programs (ca. \$300); and two high-cost programs (\$450, \$600).

--American Society of Indexers

PRINT COST	DATABASE CONNECT COST THRESHOLD **			
OFFLINE minus	IF database cost (\$/hr) is > listed value, PRINT OFFLINE		=====	
ONLINE charge (\$/rec)	Format 7 (bib + abst) (350 rec/hr)	Format 3 (bib only) (800 rec/hr)	Format 7 (bib + abst) (700 rec/hr)	Format 3 (bib only) (1600 r hr)
0.02	-3.00	6.00	4.00	22.00
0.05	7.50	30.00	25.00	70.00
0.06	11.00	38.00	32.00	86.00
0.07	14.50	46.00	39.00	102.00
0.08	18.00	54.00	46.00	118.00
0.09	21.50	62.00	53.00	134.00
0.10	25.00	70.00	60.00	150.00
0.12	32.00	86.00	74.00	182.00
0.14	39.00	102.00	88.00	214.00
0.15	42.50	110.00	95.00	230.00
0.16	46.00	118.00	102.00	246.00
0.18	53.00	134.00	116.00	278.00
0.20	60.00	150.00	130.00	310.00
0.22	67.00	166.00	144.00	342.00
0.25	77.50	190.00	165.00	390.00
0.30	95.00	230.00	200.00	470.00
0.35	112.50	270.00	235.00	550.00
0.40	130.00	310.00	270.00	630.00
0.45	147.50	350.00	305.00	710.00
0.50	165.00	390.00	340.00	790.00
0.55	182.50	430.00	375.00	870.00
0.60	200.00	470.00	410.00	950.00
0.65	217.50	510.00	445.00	1030.00
0.70	235.00	550.00	480.00	1110.00
0.75	252.50	590.00	515.00	1190.00
0.80	270.00	630.00	550.00	1270.00
0.85	287.50	670.00	585.00	1350.00
0.90	305.00	710.00	620.00	1430.00
0.95	322.50	750.00	655.00	1510.00
1.00	340.00	790.00	690.00	1590.00

\*\* NOTE: The figures in the THRESHOLD columns INCLUDE the cost of TELECOMMUNICATIONS, but DO NOT CONSIDER charges for E-MAIL delivery of output. To use DIALMAIL costs for download, add 15.00 to the figures above.

#### TREE PLANTING PROGRAM

NAL Special Collections has announced a program entitled, "Living Legacy, Bicentennial of the Constitution Tree Planting," which will take place at NAL on April 26, 1988. The ceremony begins with speakers from the spon-

soring groups, Maryland Extension Homemakers Council, Maryland Cooperative Extension Service, and NAL, and guest speaker, Earl Yingling of the Wye Oak State Park, at 10:30 a.m. in Room 1400, NAL. The tree planting will follow at 11:30 on the NAL lawn, with a reception at noon. Lobby exhibit: "200 Years of Women in Agriculture."

# QUIET ON THE SET-- VIDEO PRODUCTION IN PROGRESS

By Marilyn M. Jacobs

Public Affairs Specialist, NAL

**SCENE 1, TAKE 1:** The van moves slowly around the curved driveway in front of the NAL building. The large, heavy video camera is balanced precariously in the sliding panel doorway of the van; one leg of the tripod is on the step of the van and two legs are tightly gripped by the lighting and sound engineer as he sits on the carpeted floor of the vehicle. The director is leaning far out of the passenger side window using a clipboard to shield the camera lens as the van slowly passes from the shadow cast by the fourteen-story Library building into the morning sunlight. The director is issuing instructions to the driver, "A little slower....slower....cut!" He didn't like the speed we were traveling; the crisp, bright morning was anything but perfect, playing havoc with the camera lens; a barely perceptible bump on the road surface was very obvious to the camera's eye.

**SCENE 1, TAKE 2:** "Let's try it again from the top." Hold the speed of the van to 5 m.p.h.; be ready a little sooner to shield the lens from the sun so the picture doesn't wash out; try not to hit the bump in the driveway!

**SCENE 1, TAKE 7:** We shoot the same scene by driving in reverse. The director walks behind the van guiding the driver and directing traffic around this crazy vehicle going the wrong way. The camera man is on his own. The sound and lighting engineer's arms are getting weary trying to stabilize the tripod. CUT! The camera man doesn't think the shot will work. We may have to go up in the helicopter after all. The two rolls of film shot that morning will have to be reviewed in the studio before a decision can be made. The equipment is dismantled, packed up, and lugged inside the building. Everyone is cold. A hot cup of coffee sounds so good. But time is of the essence. The director is setting the



photo: D. Starr

Bill McDonnell (right) prepares NAL staff members Christine Sandy (Cataloging) and John Forbes (Reference) for the scene filmed at the reference desk in the Library's main reading room.



photo: D. Starr

"Action!" directs McDonnell, as lights blaze, and the crew stands ready. Christine Sandy had to stand on a stool to be tall enough for the camera to capture her acting the part of a "patron" receiving reference service.

scenario for SCENE 2, TAKE 1. The coffee will have to wait. The staff of the Library involved in the next scene are ready to go. LIGHTS....CAMERA....ACTION! Our story is unfolding before the camera's eye.

It doesn't begin when the camera starts rolling, however. Months of preparation came first. Funding needed to be approved. The script written and delivered (in all, the script was revised four times). Meetings with key staff had to be scheduled. Hundreds of books and journals were retrieved from NAL's collections to demonstrate visually the message delivered by the narrator. Staff and NAL patrons were called upon to tell our story. On location shooting had to be arranged, permission granted to film at various external locations, and because it was early winter, the unpredictability of the weather factored into the filming schedule.



photo: D. Starr

Marilyn Jacobs, NAL Production Coordinator, and Videotape Director Bill McDonnell review the script and plan the next day's shooting schedule over late afternoon cups of coffee.



photo: D. Starr

"Okay everybody. From the top. What TAKE number is this anyway?"  
The days grow long as the director strives for perfection from everyone.

Four months and forty-five rolls of film later we had a finished product. It is entitled "The National Agricultural Library - For Your Information." Key staff are settled in the conference room for a preview showing. They will determine if further editing is necessary. The room is darkened and SCENE 1 fills the screen. (It wasn't necessary to shoot this scene from a helicopter after all. Expert editing



photo: D. Starr

Bill McDonnell and Marilyn Jacobs study the monitor while John Eckert, staff member in the computer room, gets into position for the next shot. Note John's striped sweater.



photo: D. Starr

As cameraman Warren Phipps loads film, John Eckert stands by for the action cue. Note that John has made a wardrobe change: his borrowed sweater is easier on the camera's eye.

provided just the right shot.) Sixteen minutes later the production is declared a success. It tells the story of the National Agricultural Library, its past, present, and hopes for the future. An orientation to a fabulous research collection and the role that technology is playing to help create a library without walls. Information being packaged and delivered in ways unimagined just ten years ago. The traditional and nontraditional library all under one roof. Information available to all who need it.

This sixteen-minute videotape, "The National Agricultural Library--For Your Information," was produced for NAL by USDA's Video and Film Division, Office of Governmental and Public Affairs. Our thanks are extended to the following, who overcame numerous behind-the-scene problems and successfully completed the production right on schedule: researcher/writer, producer/director, Bill McDonnell of Late Night Productions; Lynn Wyvill, Executive Producer, USDA; Marilyn Jacobs, Production Coordinator and Technical Advisor, NAL; Warren Phipps, camera operator, USDA; Linwood Jones, lighting and sound engineer, USDA; David Friedman, editor, USDA; the University of Maryland for its on-location scenes; and Phil Gains, narrator.

The tape is available for loan in 1/2" VHS, 1/2" Beta, and 3/4" U-Matic formats. Copies in 1/2" VHS format recorded in the signals required to play in foreign nations are also available. Land-Grant University libraries will receive a permanent copy of the videotape for viewing by their staff and patrons. The tapes are not copyrighted. Users are urged to make copies as needed.

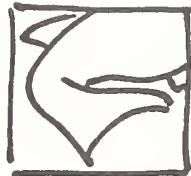
To borrow a copy, please provide the following information: complete name and mailing address; intended audience and institutional affiliation, if applicable; length of time needed; and format desired; and send requests to NAL Videotape, Lending Branch; National Agricultural Library; 10301 Baltimore Boulevard; Beltsville, MD 20705. For additional information, contact Elizabeth Goldberg, Head, Special Services Branch, Room 1402, National Agricultural Library, 10301 Baltimore Boulevard, Beltsville, Maryland 20705; phone (301) 344-3875.



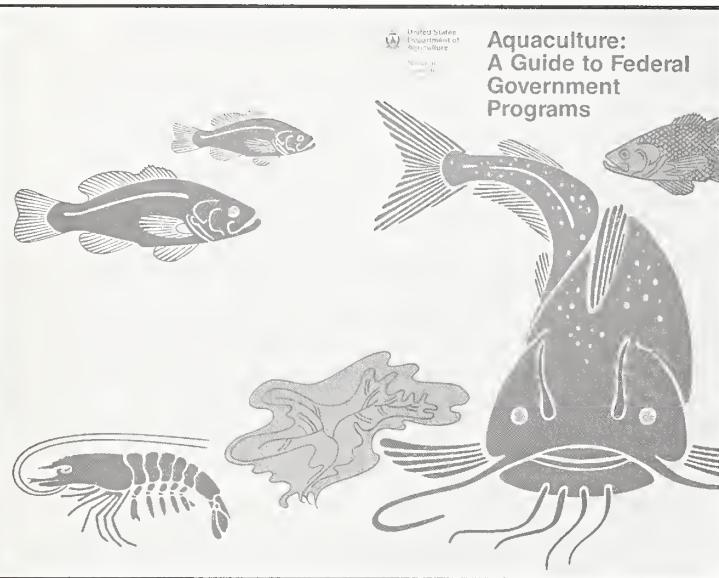
photo: D. Starr

One more shot to be on the safe side--place the computer tape on the spool, close the door, press the load button. "That's a wrap!" shouts the director. "Perfect!" And they move on to the next location to start all over again.





## Aquaculture



Cover of the new Aquaculture Directory.

### DIRECTORY OF FEDERAL AQUACULTURE PROGRAMS NOW AVAILABLE

The National Agricultural Library is pleased to announce the availability of a new aquaculture directory called, *Aquaculture: A Guide to Federal Government Programs*.

This 34-page guide describes aquaculture activities and programs supported by the Federal government. Included are the programs of eleven agencies of the Department of Agriculture, five agencies of the Department of Commerce, two agencies of the Department of the Interior, one agency each of the Departments of the Army, Energy, Health and Human Services, and State, and of the four independent agencies, Environmental Protection Agency, National Science Foundation, Small Business Administration, and Tennessee Valley Authority. Sources of further information include addresses and phone numbers. An index identifies departments, agencies, branches, divisions, offices, programs, and related services with their alternate names and commonly used acronyms, and directs users to the descriptive statements for each agency.

A bonus is the exquisite artwork which adorns most pages of the guide. Magnificent drawings of the creatures and organisms commonly cultured in both fresh and salt-water environments visually enrich this informative publication.

This guide was prepared by members of the Joint Subcommittee on Aquaculture, in cooperation with the National Agricultural Library, U.S. Department of Agriculture. It is a highly needed resource of identifying agencies in the

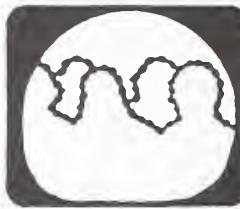
Federal government that support aquaculture.

Copies are currently available free of charge from the Aquaculture Information Center at the National Agricultural Library. To obtain a copy of the guide, contact:

**National Agricultural Library**  
**Aquaculture Information Center, Rm. 304**  
**10301 Baltimore Boulevard**  
**Beltsville, MD 20705**

Or call: (301) 344-3704

--Deborah Hanfman



## STAFF UPDATE

### KARL R. SCHNEIDER



KARL SCHNEIDER

photo: D. Starr

Karl Schneider is a librarian in the Reference Branch and leader in developing strategies for getting maximum benefits from use of the AGRICOLA and other databases. To this end he is, along with Susan Whitmore and Charles Bebee, an instructor in the AGRICOLA/CRIS Training Workshops, both basic and advanced. He helped develop the current course content, and co-authored the workbook and course materials. His article in this issue of *ALIN*

adds to the tools he has provided for improving database utilization. In addition to his reference and training duties, Mr. Schneider is an alternate staff member of the Alternative Farming Systems Information Center.

Mr. Schneider joined the NAL staff in July 1985. He had just previously been a librarian at the Kentucky Division of Natural Resources in Frankfort in public services doing bibliographic research and document delivery while earning his M.L.S. at the University of Kentucky in Lexington; there he also earned his M.S. in Forestry and B.S. in Plant Pathology.

When asked about his outside interests, Mr. Schneider said he "loves living on the Maryland Eastern Shore," which the locals know as "the land of pleasant living." He resides in Grasonville (a few miles from Kent Narrows and 48 from

NAL) with his wife, Kimberly, who works at Chesapeake Pottery, his daughter Kristina, 4, and his son, Kevin, 2. He likes the interaction he gets with the people of the area. He is also a gardening enthusiast, and "loves" restaurants--including working in them as a waiter, one of his many previous occupations. Off and on, for about 25 years, he has worked in technical theatre--set design and lighting--in such far-flung places as New York, San Francisco, Chicago, and Lexington, and has also worked as a computer consultant.

## PATRICIA LACAILLE JOHN



photo: D. Starr

PATRICIA JOHN

Patricia John began her work with the Rural Information Center in August 1987 on a temporary basis before assuming the position of Coordinator of the Center in December. Ms. John said, "I find the challenge of organizing and implementing a new information center, coordinating RIC activities with the Extension Service staff, and responding to the very diversified questions channeled into the center to be both rewarding and stimulating."

From 1979 to 1987, Ms. John was Head of Cataloging at NAL. She had previously worked at the State Department from 1970-74, first as Senior Social Science Cataloger, and then as Head of Cataloging. In 1974 she assumed the position of Chief of Cataloging at the General Accounting Office, and in 1978 assumed the newly created position of Chief of Technical Services, where she remained till 1979.

Ms. John's academic background includes a B.A. from Pacific University in World Literature and History, a Master of Librarianship from the University of Washington, and an M.A. in Diplomatic and American History from George Washington University.

Her husband, Philip John, is a computer systems specialist at the Department of the Army. Ms. John's interests outside of work include classical music, reading in a great variety of subjects and genres, attending horse shows, and her hobby--photographing landscapes.

## KATHLEEN HAYES

Kathleen Hayes is the Coordinator of NAL's Family Information Center and of the Fiber and Textiles Information Center. Since coming to NAL as a temporary employee in May 1985 and converting to permanent in April 1986, she

has also been a leader in several other important NAL projects, including the start-up of the Rural Information Center, creation and expansion of NAL's home economics collection, and development of the home economics thesaurus. For the home economics projects, she has received two outstanding performance awards. At the present time she is working on two additional projects, Water Quality and Technology Transfer, which she is developing and managing parallel to information centers (although they have not been formally designated as information centers).

Ms. Hayes is a graduate of College Misericordia, Dallas, PA, with a B.S. in Home Economics Education, 1969, and of the University of Maryland, with an M.S. in Adult & Extension Education, 1984. Before coming to NAL she interned at the U. S. Department of Education, Division of Adult Education, and she worked as a Home Economist and County Extension Director at the Pennsylvania State Cooperative Extension Service for 14 years. She also participated in a one-month Public Affairs Leadership Program sponsored by the Kellogg Corporation In Pennsylvania. Among Ms. Hayes outside interests are cooking, sewing, quilting, antiques, ice skating, and playing the piano.



photo: D. Starr

KATHLEEN HAYES

## LOUISE REYNNELLS

Louise Reynnells joined the NAL staff in May 1987 as a member of the Animal Welfare Information Center Team. In October 1987 she moved over to the Rural Information Center staff. She has been involved helping coordinators and managers of both centers with start-up (See Reynnells, page 18, col. 1)



photo: D. Starr

LOUISE REYNNELLS

### (Reynnells, from p. 17)

and operation. She has compiled several bibliographies for each center, including "Toxic Waste Incineration," *Rural Information Center Publication Series*, No. 1, December 1987, 21 p. Among her other projects were a listing of the top 100 funding sources for rural communities, and a list of training materials for animal welfare. She has also participated in searches for reference questions and document delivery.

Ms. Reynnells graduated from California State Polytechnic University, Pomona, CA, in 1984 with a B.S. in Animal Science. She is also certified as a laboratory animal technician. Before coming to NAL she had worked for two years in Extension at The University of California, Riverside. She also worked for five years in a veterinary emergency office in California.

Ms. Reynnells is the author of the chapter, "Urban Sprawl as It Affects the Southern California Poultry Industry," in *Sustaining Agriculture Near Cities*, published in December 1987 by the Soil Conservation Society. Her outside interests include needlework and traveling, as well as her interest in animals and poultry. Her husband, Richard Reynnells, is National Program Leader for Poultry at the Extension Service headquarters in Washington, DC.

## HELEN YOAS



photo: D. Starr

HELEN YOAS

Helen Yoas is working with the Rural Information Center on a cooperative graduate internship sponsored by NAL and the Center for the Study of Rural Librarianship, headed by Dr. Bernard Vavrek at Clarion University of Pennsylvania. She began working at NAL on February 1, 1988, and will continue through the end of April. Besides getting an orientation to NAL and training in the activities of RIC, Ms. Yoas has been working on several

projects, including compiling a *Pathfinder* bibliography on "Rural Development," and helping to develop a "core" reference collection for RIC.

A native of Williamsport, PA, Ms. Yoas is a graduate of Lycoming College, where she majored in English and philosophy. After working several years in banking, she decided to return to graduate study in librarianship, and chose Clarion University partly because she likes small towns, and Clarion is a lot like Williamsport.

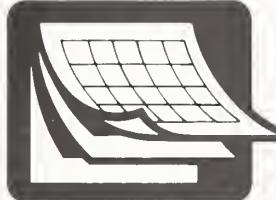
Ms. Yoas enjoys reading--"mysteries, science fiction, other fiction, almost anything"--handicrafts, and animals.

She spoke enthusiastically about her work at NAL, saying, "it's a pleasure. This is one of the most cooperative atmospheres I've ever worked in!"

## JAN OSTBY

Jan Ostby is a research graduate assistant from the University of Maryland where she is working on her M.S. in Community Nutrition. She came to NAL in February to work with the Food and Nutrition Information Center where she has been handling reference and document delivery requests, getting training using AGRICOLA online and on CD-ROM, and helping with the routines of FNIC. A graduate of the University of California, Davis, she completed her B.S. in Soil and Water Science in 1973, and worked for a few years as a soil scientist with the Forest Service at the Modoc National Forest in NE California. In 1984 after having spent several years nurturing her family, she returned to graduate study in nutrition at California State University, Northridge. She transferred to the University of Maryland in 1985 part time and began full-time study in 1987.

Ms. Ostby is married to Don Ostby who is working at Forest Service headquarters in Rosslyn, Virginia. They live in Fairfax, Virginia, with their son Trevor, aged 11, and boy and girl twins, Tyler and Gina, aged 7. Ms. Ostby has very little free time, but whenever possible likes to go camping with her family. After completing her degree, she would like to work as a public health nutritionist or as a nutrition educator.



## AGRICULTURE DATEBOOK

**April 22-24: Hydroponic Society of America Ninth Annual Conference and Trade Show.** San Francisco, CA, Clarion-San Francisco Airport Hotel. Contact: Gene Brisbon, Hydroponic Society of America, P.O. Box 6067, Concord, CA 94524. Tel.: (415) 682-4193.

**April 26-27: The 1988 Conference on Commercial Biotechnology.** Cambridge, MA, Hyatt Regency Hotel. Contact: Business Communications Company, Inc., 25 Van Zant St., Norwalk, CN 06855. Tel.: (203) 853-4266.

**May 4-6: Information and Rural Economic Development Conference.** Clarion Holiday Inn, Clarion, PA. Contact: College of Continuing Education, Clarion University of PA, Clarion, PA 16214.

**May 9-11: Beltsville Symposium XIII: Biotic Diversity and Germplasm Preservation--Global Imperatives.** Beltsville, MD. Contact: Mrs. J. Weirman, USDA, Room 127, Bldg. 001, BARC-West, Beltsville, MD 20705.

**May 15-18: American Society for Information Science Mid-Year Meeting.** Ann Arbor, MI. Contact: Stephen E. Morrison, ASIS, 1424 16th St., NW, Suite 404, Washington, DC 20036. Tel.: (202) 462-1000.

**June 5-10: The Third Chemical Congress of North America.** Toronto, Ontario, Metro Toronto Convention Centre. Contact: American Chemical Society, 1155 Sixteenth St., NW, Washington, DC 20036. Tel.: (202) 872-4485.

**June 11-16: Special Libraries Association 79th Annual Conference.** Denver, CO. Contact: SLA, 1700 18th Street, NW, Washington, DC 20009. Tel.: (202) 234-4700.

**June 12-16: Society of Nematologists Annual Meeting.** Raleigh, NC. Contact: SON, Jay, FL. Tel.: (904) 994-5215.

**June 20-23: American Home Economics Association.** Baltimore, MD. Contact: AHEA, 2010 Massachusetts Avenue, NW, Washington, DC 20036. Tel.: (202) 862-8300.

**June 22-25: Conference on Laboratory Animals.** Vista International Hotel, Washington, DC. Contact: Lee Krulisich, Scientists' Center for Animal Welfare, 4805 Elmo Avenue, Bethesda, MD 20814-4805. Tel.: (301) 654-6390.

**July 9-14: American Library Association Annual Meeting.** New Orleans, LA. Contact: ALA, 50 E. Huron Street, Chicago, IL 60611. Tel.: (312) 944-6780.

**July 10-13: Agricultural Communicator's Congress.** Washington, DC, J.W. Marriott Hotel. Contact: Paul Weller (202) 745-1994.

**July 13-15: Agricultural Communicators in Education (ACE) Annual Conference.** Washington, DC, J.W. Marriott Hotel. Contact: Karen Stuck, USDA. Tel.: (202) 447-9113. Or Russell Forte, Tel.: (202) 447-5505.

**July 16-19: American Association of Nurserymen Annual Meeting.** Anaheim, CA. Contact: Gordon Dunlop, AAN, Washington, DC. Tel.: (202) 789-2900.

**July 17-20: Third National Herb Growing and Marketing Conference.** Louisville, KY, Hyatt-Regency Hotel.

Contact: Dr. James Simon, Dept. of Horticulture, Purdue University, West Lafayette, IN 47907.

**July 18-22: American Veterinary Medical Association Annual Meeting.** Portland, OR. Contact: AVMA, Schaumburg, IL. Tel.: (312) 885-8070.

**July 31-August 3: American Agricultural Economics Association.** Knoxville, TN. Contact: Raymond R. Beneke, Dept. of Economics, 180 Heady Hall, Iowa State University, Ames, IA 50011. Tel.: (515) 294-8700.

**July 31-August 3: 43rd Annual Meeting of the Soil and Water Conservation Society.** Columbus, OH. Contact: Alan C. Epps, SWCS, 7515 Northeast Ankeny Road, Ankeny, IA 50021-9764. Tel.: (515) 289-2331.

**August 29-31: 102nd Association of Official Analytical Chemists Annual Meeting.** Palm Beach, FL, The Breakers. Contact: AOAC, 1111 North 19th St., Suite 210, Arlington, VA 22209. Tel.: (703) 522-3032.

**September 4-5: XVII World's Poultry Congress & Exhibition.** Nagoya, Japan. Contact: XVII WPC, c/o International Congress Service, Inc., Casho Bldg., 2-14-9 Nihombashi Chou-Ku, Tokyo, Japan 103.

**September 5-9: International Symposium of Horticultural Germplasm, Cultivated and Wild.** Beijing, China. Contact: Vegetable Research Institute, Chinese Academy of Agricultural Sciences, 30 Bai Shi Qiao Rd., Beijing, The People's Republic of China.

**September 25-28: National Agricultural Chemical Association Annual Meeting.** White Sulphur Springs, WV, Greenbrier. Contact: NACA, Washington, DC. Tel.: (202) 296-1585.

**September 25-30: 196th American Chemical Society Meeting & Exposition.** Los Angeles, CA, Los Angeles Convention Center. Contact: ACS, 1155 Sixteenth Street, NW, Washington, DC 20036. Tel.: (202) 872-4485.

**October 2-6: Library and Information Technology Association's Second National Conference.** Boston, MA, Hynes Convention Center. Contact: LITA, 50 E. Huron St., Chicago, IL 60611. Tel.: (312) 944-6780.

**October 2-6: National Association of Extension Home Economists.** Pittsburgh, PA. Contact: NAEHE, Henry, IL. Tel.: (309) 364-2356.

**October 3-7: Association of Marine Science Libraries and Information Centers 14th Annual Conference.** Sheraton Royal Biscayne Hotel, Miami, FL. Contact: Kay K. Hale, RSMAS Library, University of Miami Rosenstiel School of Marine and Atmospheric Science, 4600 Rickenbacker Causeway, Miami, FL 33149. Tel.: (305) 361-4021.

**October 7-8: International Wheat Industry Utilization**  
**(See DATEBOOK, page 23, col. 2)**



## PUBLICATIONS EXCHANGE

### SERIAL GAPS

The National Agricultural Library identifies gaps in the national collection through collection maintenance activities and patron requests. We appreciate your donation of the following publications needed to complete collections. If you have questions, call Ruth Finnblade, Gift and Exchange Program, (301) 344-1207.

Send items to:

National Agricultural Library  
Gift and Exchange Program, Room 002G  
Beltsville, MD 20705

*Circular. University of Illinois at Urbana-Champaign Cooperative Extension Service.* No. 1064, [date?]

*Comprehensive Survey of the Monongahela River.* Vol. 2, [date?]

*Department of the Interior and Related Agencies Appropriations for 1987. Hearings before a Subcommittee of the Committee on Appropriations, House of Representatives.* Parts 1-3, 6 & 9, [dates?]

*General and Comparative Endocrinology.* Vol. 49 (2); Vol. 58 (all); Vol. 59 (1), [dates?]

*Genetika.* Vol. 19 (1), 1983; Vol. 23 (2), 1987.

*Grower.* Vol. 107 (8), 1987.

*Israel Journal of Chemistry.* Vol. 1 (2), 1974; Vol. 13 (2 & 4), 1975; Vols. 14-16 (all), 1976-78; Vol. 27 (3-4), 1986.

*Journal of Radiation Research.* Vol. 19 (3), 1978; Vol. 24 (1-4), 1983.

*Northwest Fuchsia Facts.* 1983, No. 1; 1984, No. 6.

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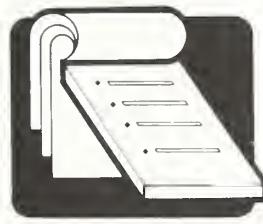
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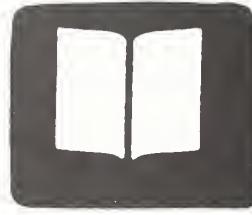
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**Conference.** Town & Country Hotel, San Diego, CA. Contact: Dr. Y. Pomeranz, Washington State University, Dept. of Food Science and Human Nutrition, Pullman, WA 99164-2032. Tel.: (509) 335-8230.

**October 16-19:** National Feed Ingredients Association Annual Meeting. New Orleans, LA, Hyatt Regency. Contact: NFIA. Tel.: (515) 225-9611.

**October 23-26:** New Crops, Research & Development. Indianapolis, IN. Contact: Jules Janick, Purdue University, Dept. of Horticulture, West Lafayette, IN 47907. Tel.: (317) 494-1329.

**October 23-27:** ASIS Annual Meeting. Atlanta, GA. Contact: ASIS, 1424 16th St., NW, Suite 404, Washington, DC 20036. Tel.: (202) 462-1000.

**November 6-10:** National Association of Extension 4-H Agents Annual Meeting. Minneapolis, MN. Contact: Garden City, KS (316) 275-9164.

**November 21-24:** International Association of Agricultural Librarians and Documentalists Regional Conference. Serdang, Selangor, Malaysia, Universiti Pertanian Malaysia. Contact: Miss Hafizah Hassan, IAALD Regional Conference, 1988, c/o The Library, Universiti Pertanian Malaysia, 43400 UPM, Serdang, Selangor, Malaysia.

**December 13-16:** American Society of Agricultural Engineers Annual Meeting. Chicago, IL, Hyatt Regency. Contact: ASAE, St. Joseph, MI. Tel.: (616) 429-0300. 

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### MARILYN JACOBS

For the past several years Marilyn Jacobs has been the assistant editor of this newsletter. She has assembled and edited on a regular basis the columns: Agricultural Datebook; New Publications; New Serials; and New Bibliographies. She has helped revise and proof-read copy for the remaining columns and articles, as well as writing some articles herself. This is the last issue to which she is contributing, since she has resigned from NAL to take up a new life in Canada. She will be missed! We send along bestwishes!

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## 1987 ARS SCIENTISTS OF THE YEAR



photo: J. Swab

The NAL lobby is the site of this photo of the 1987 ARS Scientist of the Year Awards exhibit. The scientists are: Edward B. Bagley, Chemist, Peoria, IL, for Outstanding Research in Quality Control, Processing, and New Uses of Feed and Food Crops; Marvin J. Grubman, Virologist, Greenport, Long Island, NY, for Outstanding Research Leadership and Contributions in the study of Molecular Properties of Animal Viruses; Thomas J. Sexton, Animal Physiologist, Beltsville, MD, for Innovative Leadership and Creative Research on Turkey Reproduction That is Revolutionizing the Turkey Breeding Industry.

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